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NOTICE OF ALLOWANCE AND FEE(S) DUE

28549

7590

01/27/2009

Dickinson Wright PLLC 38525 Woodward Avenue Suite 2000 Bloomfield Hills, MI 48304

| EXAMINER | | | | |
|-----------|--------------|--|--|--|
| A, MINH D | | | | |
| ART UNIT | PAPER NUMBER | | | |
| 2821 | | | | |

DATE MAILED: 01/27/2009

| APPLICATION | NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-------------|-----|-------------|----------------------|---------------------|------------------|
| 10/605.73 | 3 | 10/22/2003 | Irving Toivo Salmeen | FGT 1840 PA | 2732 |

TITLE OF INVENTION: ADAPTIVE VEHICLE COMMUNICATION CONTROLLED LIGHTING SYSTEM

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 04/27/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

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| CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 28549 7590 01/27/2009 | | | | Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. | | | |
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| Dickinson Wright PLLC 38525 Woodward Avenue Suite 2000 | | | I I St ad tra | nereby certify that that the Postal Service of the Mainsmitted to the USI and the USI are the the USI are the USI are the the USI are the the the the the the the the the th | nis Fee(s) Transmittal is bein with sufficient postage for fil 1 Stop ISSUE FEE address TO (571) 273-2885, on the | ng deposited with the United rst class mail in an envelope above, or being facsimile date indicated below. | |
| Bloomfield Hill | s, MI 48304 | | | | | (Depositor's name) | |
| | | | | | | (Signature) | |
| | | | | | | (Date) | |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENTO | R | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
| 10/605,733 TITLE OF INVENTION | 10/22/2003 V: ADAPTIVE VEHICLE | E COMMUNICATION C | Irving Toivo Salmeen CONTROLLED LIGHTI | NG SYSTEM | FGT 1840 PA | 2732 | |
| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUI | E PREV. PAID ISSU | E FEE TOTAL FEE(S) DUE | E DATE DUE | |
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 04/27/2009 | |
| EXAM | MINER | ART UNIT | CLASS-SUBCLASS | 7 | | | |
| A, MI | INH D | 2821 | 315-082000 | J | | | |
| CFR 1.363). Change of corresp Address form PTO/S "Fee Address" inc PTO/SB/47; Rev 03-(Number is required. | | ange of Correspondence "Indication form ned. Use of a Customer | 2. For printing on the (1) the names of up or agents OR, alterna (2) the name of a sin registered attorney or 2 registered patent at listed, no name will b | to 3 registered pate- tively, gle firm (having as agent) and the nan corneys or agents. If e printed. | a member a 2enes of up to | | |
| PLEASE NOTE: Un recordation as set for (A) NAME OF ASSI | less an assignee is ident th in 37 CFR 3.11. Com GNEE | pletion of this form is NC | data will appear on the off a substitute for filing a (B) RESIDENCE: (CIT | patent. If an assign n assignment. 'Y and STATE OR | · | | |
| Please check the appropr | riate assignee category or | r categories (will not be p | rinted on the patent): | ┛Individual C | orporation or other private gr | coup entity Government | |
| 4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies | | | 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). | | | | |
| 5. Change in Entity Sta | itus (from status indicate ns SMALL ENTITY stat | | h Applicant is no le | nger claiming SMA | LL ENTITY status. See 37 C | TER 1.27(a)(2) | |
| NOTE: The Issue Fee ar | nd Publication Fee (if req | | ed from anyone other than | | istered attorney or agent; or t | | |
| | | | | | | | |
| Authorized Signature | | | Date | | | | |
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| This collection of inform an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 22: | nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this bu Virginia 22313-1450. DO 313-1450. | FR 1.311. The information of U.S.C. 122 and 37 CFR U.S.C. 125 and 37 CFR USPTO. Time will vary rden, should be sent to the UNOT SEND FEES OR | on is required to obtain o 1.14. This collection is e y depending upon the ind he Chief Information Offi COMPLETED FORMS | retain a benefit by stimated to take 12 ividual case. Any c cer, U.S. Patent and TO THIS ADDRES | the public which is to file (an minutes to complete, includi omments on the amount of ti Trademark Office, U.S. Dep S. SEND TO: Commissioner | nd by the USPTO to process) ing gathering, preparing, and time you require to complete partment of Commerce, P.O. for Patents, P.O. Box 1450, | |

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

OMB 0651-0033

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| Dickinson Wright PLLC | | A, MI | NH D | | |
| 38525 Woodwar | d Avenue | | | ART UNIT | PAPER NUMBER |
| Suite 2000 Bloomfield Hills | MI 48304 | | | 2821 DATE MAILED: 01/27/200 | 9 |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

| | Application No. | Applicant(s) | |
|--|--|---|--|
| | 10/605,733 | SALMEEN ET AL. | |
| Notice of Allowability | Examiner | Art Unit | |
| | MINH D. A | 2821 | |
| The MAILING DATE of this communication apperature. All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 10/13/08. | (OR REMAINS) CLOSED or other appropriate comr IGHTS. This application is | rith the correspondence address in this application. If not included nunication will be mailed in due course. The | |
| 2. ☑ The allowed claim(s) is/are <u>1 and 4-20</u> . | | | |
| 3. Acknowledgment is made of a claim for foreign priority unexpense as a claim for foreign priority documents have a claim for foreign priority unexpense as a claim for foreign priority unexpense as a claim for foreign priority unexpense as a claim for foreign priority documents have a claim for foreign priority unexpense as a claim for foreign priority documents have a claim for foreign pri | e been received. e been received in Applicat cuments have been receiv | ion No ed in this national stage application from t | |
| noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm | MENT of this application. itted. Note the attached Ex | (AMINER'S AMENDMENT or NOTICE OF | |
| INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the | st be submitted. son's Patent Drawing Revio s Amendment / Comment .84(c)) should be written on | ew (PTO-948) attached or in the Office action of the drawings in the front (not the back) of | |
| DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT | | | |
| Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), | 6. ☐ Interview Paper No 7. ☐ Examiner | nformal Patent Application Summary (PTO-413), b./Mail Date s Amendment/Comment s Statement of Reasons for Allowance | |
| | /Douglas W 0 Supervisory P | owens/ atent Examiner, Art Unit 2821 | |

Application/Control Number: 10/605,733 Page 2

Art Unit: 2821

Allowable Subject Matter

1. Claims 1, 4-20 are allowed.

The following is an examiner's statement of reasons for allowance:

Prior art does not teach that, a vehicle safety system comprising a controller coupled to said at least one beam-forming assembly and said at least one object detection sensor; and a memory coupled to said controller and operable to store a plurality of setectable beam patterns; wherein said controller is operable to change at least one said beam illumination pattern emitted from at least one said emitter in response to at least one said object detection signal by adjusting at least one beam illumination parameter selected from the group consisting of beam amplitude, beam location, beam focus, beam angle, and beam shape in combination with all limitations recited in independent claim 1(claims 4-18 are allowed, since they are dependent on claim 1).

Prior art does not teach that, a headlight system for vehicle, the headlight system comprising the controller is operable to control at least one said beam-forming assembly so as to configure light received from at least one said light source for emission via at least one said emitter to thereby produce at least one beam illumination pattern for enhancing visibility of a roadway; wherein each said beam illumination pattern has associated beam illumination parameters including beam angle, beam focus, beam amplitude, beam position, and beam shape; and wherein said controller is operable to change at least one said beam illumination pattern in response to said second

communication signal by adjusting at least one of said beam illumination parameters recited in independent claim 9.

Prior art does not teach that, a method of operating a headlight system on vehicle for adaptively illuminating a roadway to enhance visibility, the method comprising the steps of: a controlling said headlight system to selectively produce a beam illumination pattern that illuminates said roadway.; detecting at least one communication signal generated from at least one object that is external to the vehicle; controlling the headlight system, in response to and in accordance with each the communication signal, to selectively alter its beam illumination pattern by adjusting at least one beam illumination parameter selected from the group consisting of beam angle, beam focus, beam amplitude, beam position, and beam shape recited in independent claim 20.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh Dieu A whose telephone number is (571) 272-1817. The examiner can normally be reached on M-F (5:30 AM-2: 45 PM).

If attempts to reach the examiner by telephone are unsuccessful, the

Application/Control Number: 10/605,733

Art Unit: 2821

examiner's supervisor, Owens Douglas W can be reached on (571) 272-1662. The

fax phone number for the organization where this application or proceeding is

assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Page 4

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR

only. For more information about the PAIR system, see http://pair-direct.uspto.gov.

Should you have questions on access to the Private PAIR system, contact the

Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Examiner Minh A

Art Unit 2821

Date 1/16/09

/Douglas W Owens/

Supervisory Patent Examiner, Art Unit 2821